User's Guide

Flat Panel Monitor L2035

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WARNING: Text set off in this manner indicates that failure to follow directions could result in bodily harm or loss of life.

CAUTION: Text set off in this manner indicates that failure to follow directions could result in damage to equipment or loss of information.

User's Guide
Flat Panel Monitor L2035
First Edition (October 2003)
Document Part Number: 345092-001

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1

Product Features

The Flat Panel Monitor L2035 has an active matrix, thin-film transistor (TFT), liquid crystal display (LCD). The monitor features include:

- Large 20.1-inch (51 cm) viewable area display.
- 1600 × 1200 resolution, plus full-screen support for lower resolutions.
- Wide viewing angle to allow viewing from a sitting or standing position, or moving side-to-side.
- Tilt and swivel adjustment capabilities.
- Removable base for flexible mounting solutions.
- Multiple video inputs supported:
  - VGA analog
  - DVI-I supports either analog or digital signal input
  - S-video
  - Composite video
- Video input includes PiP (Picture in Picture) option for windowed video display over data display.
- VGA analog, DVI-I to VGA, and DVI-Digital signal cables included.
- Plug and play capability if supported by your system.

- On-Screen Display (OSD) adjustments in English, Dutch, French, Italian, Spanish, and German for ease of set-up and screen optimization.
- *Software and Reference Library* CD includes an information file (INF), Image Color Matching file (ICM), and product documentation.
- Energy Saver feature for Energy Star compliance.
- AssetControl
- Compliant with the following regulated specifications:
  - EPA ENERGY STAR
  - European Union CE Directives
  - Swedish MPR II 1990
  - Swedish TCO Requirements

2

Safety and Maintenance Guidelines

Important Safety Information

A power cord is included with your monitor. If another cord is used, use only a power source and connection appropriate for this monitor. For information on the correct power cord set to use with your monitor, refer to the "Power Cord Set Requirements" section in Appendix C.

WARNING: To reduce the risk of electric shock or damage to your equipment, do not disable the power cord grounding feature. This equipment is designed to be connected to a grounded (earthed) power outlet that is easily accessible to the operator. The grounding plug is an important safety feature.

WARNING: For your safety, be sure that the power outlet you plug the power cord into is easily accessible and located as close to the equipment as possible. When you need to disconnect the power to the equipment, unplug the power cord from the power outlet by grasping the plug firmly. Never pull on the cord.

CAUTION: For the protection of your monitor, as well as your computer, connect all power cords for your computer and its peripheral devices (such as a monitor, printer, scanner) to some form of surge protection device such as a power strip or Uninterruptible Power Supply (UPS). Not all power strips provide surge protection; the power strips must be specifically labeled as having this ability. Use a power strip whose manufacturer offers a Damage Replacement Policy so you can replace your equipment if surge protection fails.

Maintenance Guidelines

To enhance the performance and extend the life of your monitor:

- Do not open your monitor cabinet or attempt to service this product yourself. Adjust only those controls that are covered in the operating instructions. If your monitor is not operating properly or has been dropped or damaged, contact your HP authorized dealer, reseller, or service provider.
- Use only a power source and connection appropriate for this monitor, as indicated on the label/back plate of the monitor.
- Be sure the total ampere rating of the products connected to the outlet does not exceed the current rating of the electrical outlet, and the total ampere rating of the products connected to the cord does not exceed the rating of the cord. Look on the power label to determine the ampere rating (AMPS or A) for each device.
- Install your monitor near an outlet that you can easily reach. Disconnect the monitor by grasping the plug firmly and pulling it from the outlet. Never disconnect the monitor by pulling the cord.
- Turn your monitor off when not in use. You can substantially increase the life expectancy of your monitor by using a screen saver program and turning off the monitor when not in use.

- Unplug your monitor from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning. If the screen requires additional cleaning, use an antistatic screen cleaner.

CAUTION: Do not use benzene, thinner, ammonia, or any other volatile substances to clean your monitor or the screen. These chemicals may damage the cabinet finish as well as the screen.

- Slots and openings in the cabinet are provided for ventilation. These openings must not be blocked or covered. Never push objects of any kind into cabinet slots or other openings.
- Do not drop your monitor or place it on an unstable surface.
- Do not allow anything to rest on the power cord. Do not walk on the cord.
- Keep your monitor in a well-ventilated area, away from excessive light, heat or moisture.
- When removing the monitor base, you must lay the monitor face down on a soft area to prevent it from getting scratched, defaced, or broken.

Cleaning the Monitor

To clean the monitor, follow these steps:

1. Turn off the monitor and the computer.
2. Dust the monitor by wiping the screen and the cabinet with a soft, clean cloth.

If the screen requires additional cleaning, use a clean cloth dampened with isopropyl alcohol.

CAUTION: Do not use benzene, thinner, ammonia, or any volatile substance to clean the monitor screen or cabinet. These chemicals may damage the monitor. Never use water to clean an LCD screen.

Shipping the Monitor

Keep the original packing box in a storage area. You may need it later if you move or ship your monitor.

3

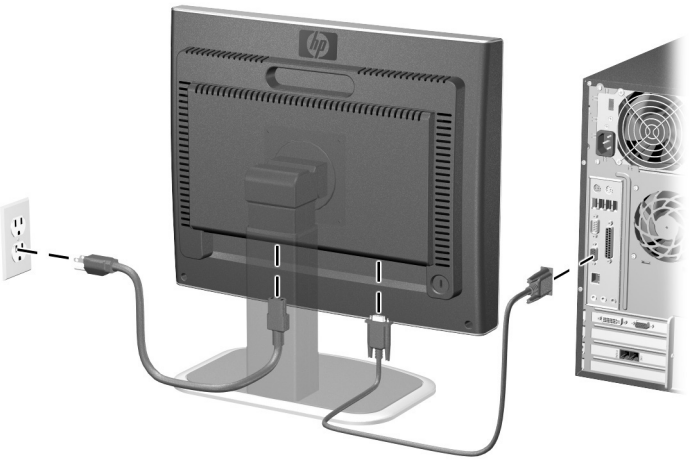
Setting Up the Monitor

To set up the monitor, ensure that the power is turned off to the monitor, computer system, and other attached devices, then follow these steps:

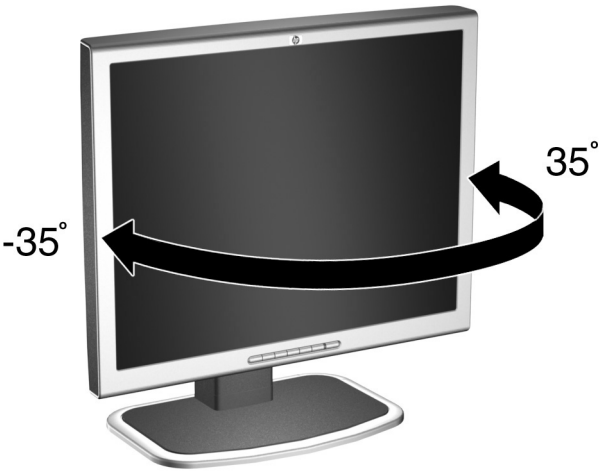
1. Place the monitor in a convenient, well-ventilated location near your computer.
2. Connect one end of the monitor signal cable to the video connector on the rear panel of the computer, and the other end to the back of the monitor.

The DVI-D cable supplied with this monitor is for digital-to-digital connection only. Your computer must have a DVI-compatible graphics card installed for use with this cable. When connecting the DVI-D signal cable to the DVI connector on the monitor, you must connect the other end of the DVI-D cable to the DVI connector on the computer.

3. Connect the power cable to the back of the monitor, and the other end of the power cable to an electrical wall outlet.



4. Adjust the monitor as needed for your comfort using the monitor's tilt, swivel, and height adjustment capabilities.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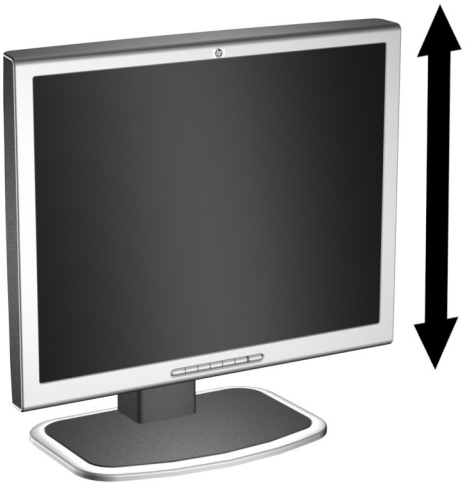


CAUTION: To reduce the risk of electric shock or damage to your equipment: Do not disable the power cord grounding plug. The grounding plug is an important safety feature.

Plug the power cord into a grounded (earthed) electrical outlet that is easily accessible at all times.

Disconnect power from the monitor by unplugging the power cord from the electrical outlet.

Do not place anything on power cords or cables. Arrange them so that no one may accidentally step on or trip over them. Do not pull on a cord or cable. When unplugging from the electrical outlet, grasp the cord by the plug.

WARNING: Burn-in image damage may occur on monitors that display the same static image on screen for a prolonged period of time. To avoid burn-in image damage on your monitor screen, you should always activate a screen saver application or turn off the monitor when it is not in use for a prolonged period of time.

Selecting the Signal Connectors and Cable

There are four signal input connectors: one VGA connector, one DVI-I connector, one super video connector, and one composite video connector. The monitor will automatically determine which inputs have valid video signals. The inputs can be selected via the On-Screen Display (OSD) feature or by pressing the Input button on the monitor front bezel.

The video mode supported by the DVI-I connector is determined by the video cable used. For digital operation, use the DVI-D to DVI-D signal cable provided. For analog operation, the DVI-I to VGA signal cable must be attached to the DVI-I input.

Removing the Monitor Base

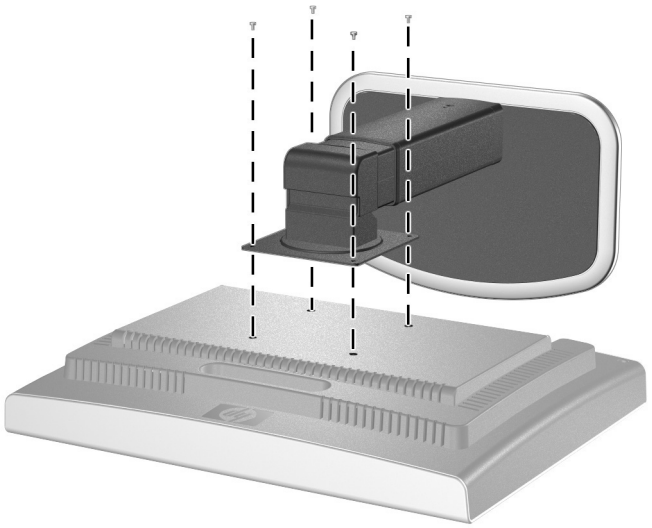
You can remove the monitor base to mount the monitor on a wall, swing arm, or other mounting fixture. Read the caution and warning statements below before beginning the procedure.

CAUTION: Before beginning to disassemble the monitor, be sure the monitor is turned off and the power and signal cables are both disconnected.
Lay the front bezel down on a soft area to prevent it from getting scratched, defaced, or broken.

WARNING: Before removing the monitor from the base, ensure that the monitor is lying flat, front bezel down, and that the base is set to the maximum base extension. Attempting to remove the monitor from the base while upright in the minimum base extension may result in injury to the user.

1. Disconnect and remove the signal and power cables from the back of the monitor.

2. Remove the four screws as shown in the following illustration.



CAUTION: Ensure that the bottom of the monitor base is positioned over a table or desktop before removing the base from the monitor.

3. Remove the monitor base from the monitor.

Mounting the Monitor

1. Remove the monitor base. Refer to “Removing the Monitor Base” steps in the previous section.

   When the base is removed, four threaded mounting holes are exposed on the monitor panel to be used for mounting purposes. These mounting holes are spaced 100 mm apart and are compliant with the Video Electronics Standards Association (VESA) standard for mounting flat panel displays.

2. Mount the monitor to a swing arm or other mounting fixture by following the instructions included with the mounting fixture to be used.

4

Operating the Monitor

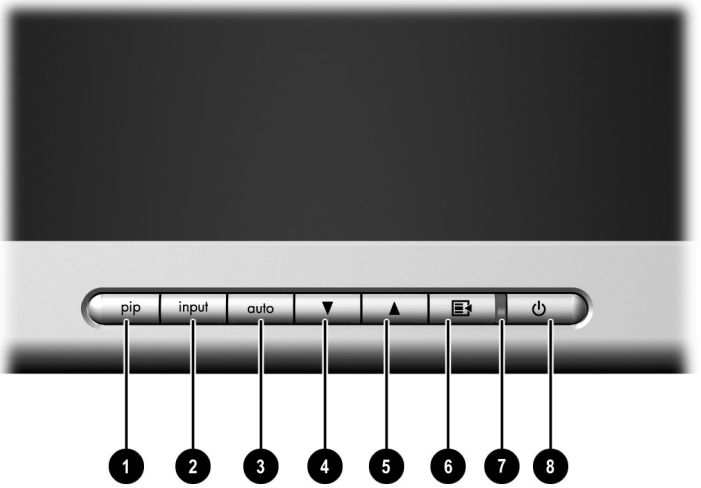
Installing the Information Files

The CD-ROM included with this monitor contains two information files to be installed onto your computer; an .INF file and an .ICM file.

- The .INF file defines monitor resources and provides specifications used by most operating systems to install support software for certain hardware devices. The .INF file ensures monitor compatibility and optimization with your computer's graphics adapter. INF files are also downloadable by clicking on: http://www.hp.com/support and selecting the desired monitor.
- The .ICM file provides color matching consistency from monitor screen to printer and is activated from within graphics programs that have this feature.

To install these files on your computer, insert the *Software and Reference Library* CD in your computer CD-ROM drive. When the CD menu launches, select "Install INF and ICM Files" and follow the on-screen instructions.

Front Panel Components



No.	Icon	Control	Function
❶	PiP	PiP button	Activates Picture in Picture (PiP) window
❷	input	Signal Input button	Signal input selection - scrolls through VGA, DVI-Analog, DVI-Digital, Super video, and composite video input
❸	auto	Auto button	Auto adjustment of displayed image
❹	▼	OSD Adjust	Select and adjust the OSD Menu settings Selects VGA input when OSD is not active

No.	Icon	Control	Function
❺		OSD Adjust	Select and adjust the OSD Menu settings Selects DVI-I input when OSD is not active
❻		Menu button	Launches the On-Screen Display (OSD) menu and selects functions.
❼		Power LED	Full power = Green Sleep = Amber
❽		Power Switch	Turns the monitor on and off

Adjusting Monitor Settings

Press the Menu button on the front panel of the monitor to view the On Screen Display (OSD) Menu. The Main Menu window pops up and you can make adjustments to your monitor's various features. Use the left, right, up, and down arrow keys to make your adjustments within the menu.

Using the On-Screen Display

The adjustments for screen settings are located in the on-screen display (OSD). Press the Menu button on the monitor's front panel to view the OSD menu in one of six available languages. The following table shows the menus and their functions at each level:

OSD Menu Levels

Menu Level 1	Menu Level 2	Menu Level 3	Menu Level 4
Brightness	Adjustment Scale		
Contrast	Adjustment Scale		
Image Control	Auto Adjustment	"Adjusting" Message	
	Horizontal Position	Adjustment Scale	
	Vertical Position	Adjustment Scale	
	Custom Scaling	Fill to Screen	
		Fill to Aspect Ratio	
		One to One	
	Sharpness	Adjustment Scale	
	Clock	Adjustment Scale	
	Clock Phase	Adjustment Scale	
Color	9300K		
	6500 K - sRGB		
	Custom Color	Red, Green, Blue	
	Video Color	Hue, Saturation	
Language	Deutsch		
	Español		

OSD Menu Levels

Menu Level 1	Menu Level 2	Menu Level 3	Menu Level 4
	Francais		
	Italiano		
	Nederlands		
Management	Power Saver	On/Off Selection	
	Power On Recall	On/Off Selection	
	Mode Display	On/Off Selection	
	Serial Number	(display serial number)	
	Sleep Timer	Set current & sleep time	
	Basic Menu		
OSD Control	Horizontal Position	Adjustment Scale	
	Vertical Position	Adjustment Scale	
	OSD Timeout	Adjustment Scale	
	OSD Transparency	Adjustment Scale	
Video Input Controls	Video Input Select	Analog (VGA)	
		Analog (DVI)	
		Digital (DVI)	
		S-Video	

OSD Menu Levels

Menu Level 1	Menu Level 2	Menu Level 3	Menu Level 4
		Composite Video	
		Auto Detect	
	PiP Control	PiP Source	Super Video
			Composite Video
		PiP Size	PiP Off
			Small
			Medium
			Large
		Horizontal Position	Adj Scale
		Vertical Position	Adj Scale
Factory Reset	Yes		
	No		
Exit			

The Video Noise OSD selection is not available when the monitor is operating in the DVI-D (digital) mode.

Identifying Special OSD Messages

Special OSD messages appear on the monitor screen when identifying the following monitor conditions:

- Input Signal Out of Range, Change Setting to 1600 x 1200 - 60Hz—indicates the monitor is unable to access or fully support the provided input signal.
- Going to Sleep—Indicates the monitor is entering the sleep mode.
- Check Video Cable—Indicates the video cable may not be plugged into the computer or monitor, or that the computer may not be turned on.

Adjusting Screen Quality

Allow the monitor to warm up for 20 minutes before performing the following procedures.

The Auto Adjustment feature automatically fine-tunes the image quality each time a new video mode is utilized. If additional improvement is desired, select the Auto button on the front bezel.

For more precise adjustments, use the adjustment pattern provided on the CD-ROM, and adjust the clock and phase settings (accessed from the OSD menu) as described in the following section.

Optimizing Digital Conversion

This monitor contains advanced circuitry that allows the flat panel screen to function like a standard monitor. Two controls in the on-screen display can be adjusted to improve image performance: Clock and Clock Phase. Use these controls only when the auto adjust function does not provide a satisfactory image.

The Clock must first be set correctly since the Clock Phase settings are dependent on the main Clock setting.

- Clock—Increase/decrease the value to minimize any vertical bars or stripes visible on the screen background.
- Clock Phase—Increase/decrease the value to minimize video distortion or video jitter.

When using the controls, you will obtain the best results by using the adjustment pattern provided on the CD-ROM.

When adjusting the Clock and Clock Phase values, if the monitor images become distorted, continue adjusting the values until the distortion disappears. To restore the factory settings, select Yes from the Factory Reset menu in the on-screen display.

A

Troubleshooting

Solving Common Problems

The following table lists possible problems, the possible cause of each problem, and the recommended solutions.

Problem	Possible Cause	Solution
Screen is blank.	Power cord is disconnected.	Connect the power cord.
	Power switch is turned off.	Turn on the power.
	Video cable is improperly connected.	Connect the video cable properly. Refer to *Chapter 3, Setting Up the Monitor,* for more information.
	Screen blanking utility is active.	Depress any key on the keyboard or move the mouse to inactivate the screen blanking utility.

Problem	Possible Cause	Solution
Image appears blurred, indistinct, or too dark.	Brightness and contrast are too low.	Press the Menu button to open the OSD Menu, and adjust the brightness and contrast scales as needed.
Image is not centered.	Position may need adjustment.	Press the Menu button to access the OSD menu. Select Adjust Position to adjust the horizontal or vertical position of the image.
"Check Video Cable" is displayed on screen.	Monitor video cable is disconnected.	Connect the 15-pin monitor video cable to the VGA connector on the computer. Be sure that the computer power is off while connecting the video cable.
"Input Signal Out of Range" is displayed on screen.	Video resolution and/or refresh rate are set higher than what your monitor supports.	Restart your computer and enter Windows Safe Mode by pressing the F6 Function key when the computer starts to boot up. Change your settings to a supported setting. Restart your computer so that the new settings take effect.

Using the Worldwide Web

Before contacting customer services, refer to the support Web site at: http://www.hp.com/support

Preparing to call Technical Support

If you cannot solve a problem using the troubleshooting tips in this section, you may need to call technical support. Have the following information available when you call:

- The monitor
- Monitor model number (on front and back panel)
- Serial number for the monitor (on back panel)
- Purchase date on invoice
- Conditions under which the problem occurred
- Error messages received
- Hardware configuration (found on Windows Control Panel)
- Hardware and software you are using

B

Specifications

Flat Panel Monitor L2035

Display Type	20 inches TFT LCD	51 cm
Viewable Image Size	20-inch diagonal	51 cm
Tilt Swivel	-5 to 25° +35 to - 35°	
Face Treatment	Anti-glare polarizer with hard coating	
Maximum Weight (Unpacked)	21 lbs.	9.5 kg
Dimensions (includes pedestal) Height Depth Width	 20.9 inches 8.3 inches 17.8 inches	 531 mm 210 mm 453 mm
Maximum Graphics Resolution	1600 x 1200 (60 Hz) digital input 1600 x 1200 (75 Hz) analog input	
Text Mode	720 x 400	
Dot Pitch	0.255 x 0.255 mm	
Horizontal Frequency	30 to 94 kHz analog input 30 to 75 kHz digital input	
Vertical Refresh Rate	48 to 85 Hz	

Flat Panel Monitor L2035

Environmental Requirements		
Temperature		
Operating Temperature	41 to 95° F	5 to 35° C
Non-operating Temperature	-4 to +140° F	-20 to +60° C
Relative Humidity		
Operating	20 to 80%	
Non-Operating	5 to 95%	
Power Source	100 - 240 VAC, 50/60 Hz	
Power Consumption	<75 watts	
Input Terminals	15-pin D-type connector with cable included. DVI-I connector with DVI-D cable included	
Color Display Values		
CIE* Chromaticity Coordinates		
	x (+/- 0.030)	y (+/- 0.030)
Red	0.63	0.34
Blue	0.15	0.110
Green	0.30	0.58
White Chromaticity (6500 K) (9300 K)	0.31 0.28	0.34 0.31
Gamma: 2.2		

* Commission International d'Eclairage, 1931 Standard.

Recognizing Preset Display Resolutions

The display resolutions listed below are the most commonly used modes and are set as factory defaults. This monitor automatically recognizes these preset modes and they will appear properly sized and centered on the screen.

Factory Preset Display Modes

Preset	Pixel Format	Horz Freq (kHz)	Vert Freq (Hz)
1	640 x 480	31.5	60.0
2	640 x 480	37.5	75.0
3	640 x 480	43.3	85.0
4	720 x 400	31.5	70.1
5	800 x 600	37.9	60.3
6	800 x 600	53.7	85.1
7	832 x 624	49.7	75.0
8	1024 x 768	48.4	60.0
9	1024 x 768	60.0	75.0
10	1024 x 768	68.7	85.0
11	1152 x 870	69.0	75.1
12	1152 x 900	61.8	66.0 (Sun Mode II)
13	1280 x 960	60.0	60.0
14	1280 x 1024	64.0	60.0
15	1280 x 1024	80.0	75.0
16	1280 x 1024	91.2	85.0
17	1600 x 1200	75.0	60.0
18	1600 x 1200	93.8	75.0

Entering User Modes

The video controller signal may occasionally call for a mode that is not preset if:

- You are not using a Hewlett Packard standard graphics adapter.
- You are not using a preset mode.

If this occurs, you may need to readjust the parameters of the monitor screen by using the on-screen display. Your changes can be made to any or all of these modes and saved in memory. The monitor automatically stores the new setting, then recognizes the new mode just as it does a preset mode. In addition to the 18 factory preset modes, there are four user modes that can be entered and stored.

Using the Energy Saver Feature

When the monitor is in its normal operating mode, the monitor uses less than 75 watts of power and the Power light is green.

The monitor also supports a reduced power state. The reduced power state will be entered into if the monitor detects the absence of either the horizontal sync signal and/or the vertical sync signal. Upon detecting the absence of these signals, the monitor screen is blanked, the backlight is turned off, and the Power light is turned amber. When the monitor is in the reduced power state, the monitor will utilize less than 3 watts of power. There is a brief warm up period before the monitor will return to its normal operating mode.

Refer to your computer manual for instructions on setting energy saver features (sometimes called power management features).

The above energy saver feature only works when connected to computers that have energy saver features.

By selecting settings in the monitor's Energy Saver utility, you can also program the monitor to enter into the reduced power state at a predetermined time. When the monitor's Energy Saver utility causes the monitor to enter the reduced power state, the Power light blinks amber.

C

Agency Regulatory Notices

Federal Communications Commission Notice

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio or television technician for help.

Modifications

The FCC requires the user to be notified that any changes or modifications made to this device that are not expressly approved by Hewlett Packard may void the user's authority to operate the equipment.

Cables

Connections to this device must be made with shielded cables with metallic RFI/EMI connector hoods to maintain compliance with FCC Rules and Regulations.

Declaration of Conformity for Products Marked with FCC Logo, United States Only

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

For questions regarding your product, contact:

Hewlett Packard
P. O. Box 692000, Mail Stop 530113
Houston, Texas 77269-2000

Or, call - 1-800- 652-6672 (1-800-OK COMPAQ)

For questions regarding this FCC declaration, contact:

Hewlett Packard
P. O. Box 692000, Mail Stop 510101
Houston, Texas 77269-2000

Or, call - (281) 514-3333

To identify this product, refer to the Part, Series, or Model number found on the product.

Canadian Notice

This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

Avis Canadien

Cet appareil numérique de la classe B respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

European Notice

Products with the CE Marking comply with both the EMC Directive (89/336/EEC) and the Low Voltage Directive (73/23/EEC) issued by the Commission of the European Community.

Compliance with these directives implies conformity to the following European Norms (in brackets are the equivalent international standards):

- EN55022 (CISPR 22) - Electromagnetic Interference
- EN55024 (IEC61000-4-2,3,4,5,6,8,11) - Electromagnetic Immunity
- EN61000-3-2 (IEC61000-3-2) – Power Line Harmonics
- EN61000-3-3 (IEC61000-3-3) – Power Line Flicker
- EN60950 (IEC950) - Product Safety

Japanese Notice

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取扱説明書に従って正しい取り扱いをして下さい。

Korean Notice

B급 기기 (가정용 정보통신기기)

이 기기는 가정용으로 전자파적합등록을 한 기기로서 주거지역에서는 물론 모든지역에서 사용할 수 있습니다.

EPA Energy Star Compliance

Monitors that are marked with the Energy Star Logo meet the requirements of the EPA Energy Star program. As an Energy Star Partner, Hewlett Packard has determined that this product meets the Energy Star guidelines for energy efficiency. Specific details on using the Energy Saving features can be found in the energy saver or power management section of the computer manual.

Power Cord Set Requirements

The monitor power supply is provided with Automatic Line Switching (ALS). This feature allows the monitor to operate on input voltages between 100-120V or 200-240V.

The power cord set (flexible cord or wall plug) received with the monitor meets the requirements for use in the country where you purchased the equipment.

If you need to obtain a power cord for a different country, you should purchase a power cord that is approved for use in that country.

The power cord must be rated for the product and for the voltage and current marked on the product's electrical ratings label. The voltage and current rating of the cord should be greater than the voltage and current rating marked on the product. In addition, the cross-sectional area of the wire must be a minimum of 0.75 mm² or 18AWG, and the length of the cord must be between 6 feet (1.8 m) and 12 feet (3.6 m). If you have questions about the type of power cord to use, contact your HP authorized service provider.

A power cord should be routed so that it is not likely to be walked on or pinched by items placed upon it or against it. Particular attention should be paid to the plug, electrical outlet, and the point where the cord exits from the product.

HP Recycling Program

HP offers product end-of-life return programs for HP and other manufacturers' hardware in several geographic areas.

The terms and availability of these programs vary by geography because of differences in regulatory requirements and local customer demand. For information on the HP recycling program, refer to the HP Web site at: http://www.hp.com/hpinfo/globalcitizenship/environment/recycle/hardware.html.